10th International Conference on
Future Pharma and Innovations
March 24-25, 2026 | Amsterdam, Netherlands
Volume : 13

In-virto and in-vivo Pharmacological Evaluation of 6-fluoro-3(Piperidin-4-yt) Benzo[d]isoxazole Derivatives for Their Antipsychotic Properties

Bora Shankar Rao, M.Pharmacy, Department of pharmacology, Sri venkateswara college of pharmacy

Co-author: A.V.S. Kasheera Bhavani

Objective & Aim: This study aims to evaluate the pharmacological potential of ethanol extracts from the rhizome of Alpinia calcarata, focusing on their anti-carcinogenic**,** antioxidant, and anti-inflammatory activities. The objective is to investigate the extract's efficacy in inhibiting cancer cell growth, scavenging free radicals, and suppressing inflammatory responses**,** thereby providing scientific validation for its traditional medicinal use**.**

Method: Ethanol extraction of *Alpinia calcarata* rhizome was performed using Soxhlet apparatus. The anti-carcinogenic activity was assessed through in vitro cytotoxicity assays (MTT assay) on selected human cancer cell lines. Antioxidant activity was evaluated using DPPH and ABTS radical scavenging assays. Anti-inflammatory potential was determined through protein denaturation inhibition and membrane stabilization assays. The results were statistically analyzed to determine the significance of the bioactivities.

Keywords: *Alpinia calcarata*, ethanol extract, anti-carcinogenic, antioxidant, anti-inflammatory, phytochemicals, medicinal plants, rhizome, cytotoxicity, DPPH assay

Biography1: Mr. Bora Shankar Rao is pursuing his M.Pharmacy in the Department of Pharmacology at *Sri Venkateswara College of Pharmacy*. His research focuses on In-virto and in-vivo Pharmacological Evaluation of 6-fluoro-3(Piperidin-4-yt) Benzo disoxazole Derivatives for Their Antipsychotic Properties, as reflected in his study on the *Pharmacological Evaluation of Ethanol Extracts from Alpinia calcarata Rhizome*.

Biography2: Dr. A.V.S. Kasheera Bhavani, Associate Professor of Pharmaceutics at Sri Venkateswara College of Pharmacy, has over six years of experience in teaching, research, and student mentorship. Her expertise includes drug delivery systems, formulation development, and pharmaceutical technology, with a strong commitment to academic excellence and research-driven learning.

Abstract received: August 19, 2025 | Abstract accepted: September 10, 2025 | Abstract published: October 10, 2025